

Fig. 1

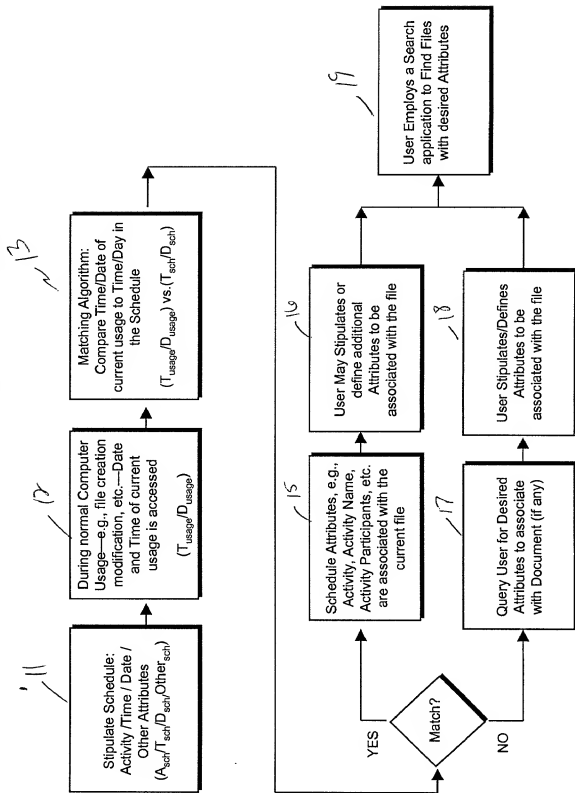


Fig. 2

SCHEDULE BUILDER				X
COURSE NUMBER				
CLASS NAME				
PROFESSOR				
LECTURE				
Lecture	DAY	TIME	BUILDING	ROOM
Recitation	DAY	TIME	BUILDING	ROOM
Lab	DAY	TIME	BUILDING	ROOM
SET AND ENTER NEXT CLASS		FINISH		CANCEL

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Fig. 3

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ACTIVITY A_{sch}	DAY(S) D_{sch}	TIME(S): T_{sch}		OTHER SCHEDULE ATTRIBUTES			
		Start-Time: T_{sch1}	End-Time: T_{sch2}	PROFESSOR NAME	COURSE NUMBER	BUILDING NAME	ROOM NUMBER ETC.
Physics	Monday	10:30	12:30	Dr. Higgins	6.012	Boss Hall	252
	Wednesday	10:30	12:30	Dr. Higgins	6.012	Boss Hall	252
	Friday	10:30	12:30	Dr. Higgins	6.012	Boss Hall	252
Spanish	Tuesday	9:30	11:30	Dr. Mendez	22.021	Angelica Hall	131
	Thursday	9:30	11:30	Dr. Mendez	22.021	Angelica Hall	131
Etc.							

Fig. 4

Schedule for Steven Rogers:

ACTIVITY A_{sch}	DATE D_{sch}	TIME(S): T_{sch}		OTHER SCHEDULE ATTRIBUTES		
		Start-Time: T_{start}	End-Time: T_{end}	MEETING BUILDING	PARTICIPANTS	
Hairz Acquisition Meeting	Monday, Sept 11, 2000	8:00	10:30	Pittsburgh	Steven Rogers, Jack Walsh	
Proled Sail Meeting	Wednesday, Nov 8, 2000	9:30	11:30	New York	Steven Rogers, John Dovers, Diane Chang	
Lunch with Anne Miller	Thursday, Nov 16, 2000	12:00	13:00	New York	Steven Rogers, Anne Miller	

Fig. 5

During normal computer use, as documents are created/transferred/accessed/modified, etc., the time and date of usage is referenced.

E.g., A new document is being saved:

Acquisition Meeting Notes

- Target Acquisition Price: \$15.4 Billion
- Terms: Full Stock transaction
- Penalty: \$100 Million payment for failure to consummate deal
- Etc.

Relevant information about the current usage is accessed from the operating system / internal clock. This data retrieval could be triggered by opening a file, closing a file, saving a file, etc.



"File_Name.doc"

Date: Sept 11, 2000

Day: Monday

Time: 9:30

(D_{usage} / T_{usage})

NSA

Fig. 6

The time/date information of the new document is then queried against the time/date data stipulated in the schedule with a matching algorithm:

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"File_Name.doc"

Date: Sept 11, 2000

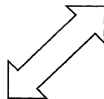
Day: Monday

Time: 9:30

(D_{usage}/T_{usage})

Matching Algorithm to compare:

(D_{usage}/T_{usage}) and (D_{sch}/T_{sch})

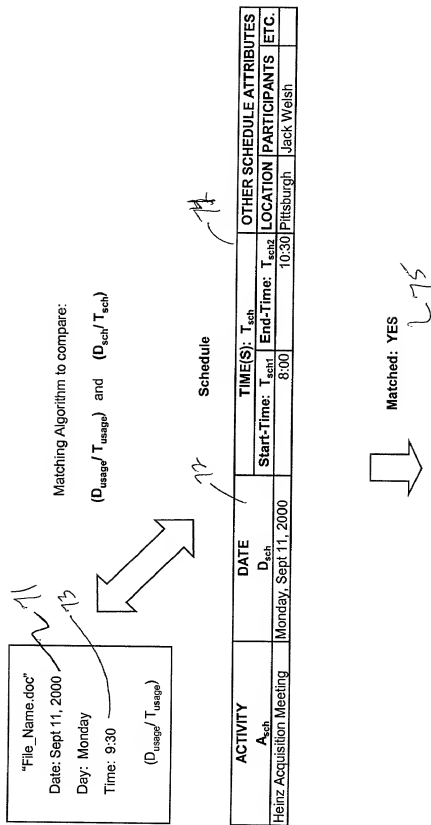


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ACTIVITY A_{sch}	DATE D_{sch}	TIME(S): T_{sch}		OTHER SCHEDULE ATTRIBUTES	
		Start-Time: T_{sch1}	End-Time: T_{sch2}	LOCATION	PARTICIPANTS ETC.
Heinz Acquisition Meeting	Monday, Sept 11, 2000				
Project Sell Meeting	Wednesday, Nov 8, 2000	8:00	10:30	Pittsburgh	Jack Welsh
Lunch with Anne Miller	Thursday, Nov 16, 2000	9:30	11:30	New York	John Devers
		12:00	13:00	New York	Anne Miller

Fig. 7

If the query returns a positive match, attributes from the schedule will be automatically associated to the file and stored in a searchable database:



Attributes from the schedule will be automatically associated to the file and stored

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Fig. 8

Attribute are associated with files, for example in an "Attribute Database"

Attribute Database

New attributes associated with the file:

FILE NAME	DATE CREATED	TIME CREATED	ACTIVITY NAME	LOCATION	PARTICIPANTS	ETC.
File_Name.doc	Monday, Sept 11, 2000	9:30	Heinz Acquisition M	Pittsburgh	Jack Welsh	

Fig. 9

If the query returns a negative match, the user is prompted for any attributes he/she would like to associate with the file:

"File_Name.doc"

Date: Sept 11, 2000

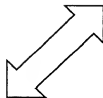
Day: Monday

Time: 11:30

(D_{usage}/T_{usage})

Matching Algorithm to compare:

(D_{usage}/T_{usage}) and (D_{sch}/T_{sch})



Schedule

ACTIVITY A_{sch}	DATE D_{sch}	TIME(S): T_{sch}		OTHER SCHEDULE ATTRIBUTES	
		Start-Time: T_{sch1}	End-Time: T_{sch2}	LOCATION	PARTICIPANTS ETC.
Heinz Acquisition Meeting	Monday, Sept 11, 2000	8:00	10:30	Pittsburgh	Jack Welsh
Project Sell Meeting	Wednesday, Nov 8, 2000	9:30	11:30	New York	John Devers
Lunch with Anne Miller	Thursday, Nov 16, 2000	12:00	13:00	New York	Anne Miller



Matched: NO

"Would you like to associate any attributes to 'File_Name.doc?'"



NO: [no action]



Yes: "Please define attribute field and name", e.g.

Field: "Subject" Name: "Discussion Follow-up"

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Fig. 10

Files are then searchable by attributes, as well as time/date information:

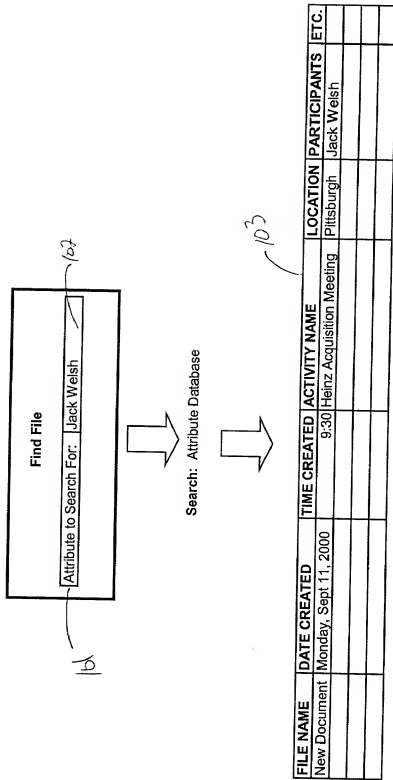


Fig. 11

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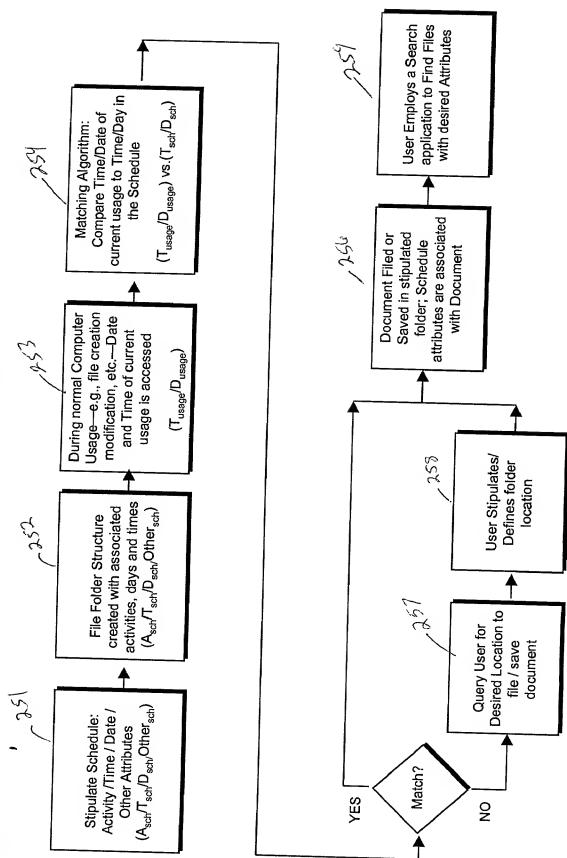


Fig. 12

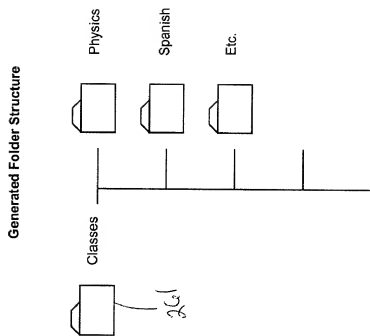
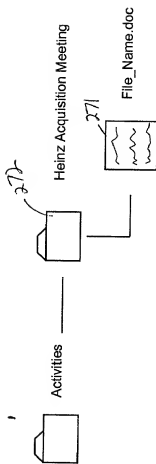


FIG. 13



New attributes associated with the file:

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FILE NAME	DATE CREATED	TIME CREATED	ACTIVITY NAME	LOCATION	PARTICIPANTS	ETC.
File_Name.doc	Monday, Sept 11, 2000	9:30	Heinz Acquisition	M'Pittsburgh	Jack Welsh	

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Fig. 14

If the query returns a negative match, the user is prompted for any attributes he/she would like to associate with the file:

"File_Name.doc"

Date: Sept 11, 2000

Day: Monday

Time: 11:30

(D_{usage}/T_{usage})

Matching Algorithm to compare:

(D_{usage}/T_{usage}) and (D_{sch}/T_{sch})

Schedule

ACTIVITY A _{sch}	DATE D _{sch}	TIME(S): T _{sch}			OTHER SCHEDULE ATTRIBUTES		
		Start-Time: T _{sch1}	End-Time: T _{sch2}		LOCATION	PARTICIPANTS	ETC.
Heinz Acquisition Meeting	Monday, Sept 11, 2000	8:00	10:30		Pittsburgh	Jack Welsh	
Project Sail Meeting	Wednesday, Nov 8, 2000	9:30	11:30		New York	John Devers	
Lunch with Anne Miller	Thursday, Nov 16, 2000	12:00	13:00		New York	Anne Miller	



Matched: NO

"Where would you like to file/save 'File_Name.doc?'"



Cancel: [no action]

<User>: Save "File_Name.doc" in the "Miscellaneous Notes" folder,
under the "Activities folder"

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